

PATENT CLAIMS

1. Moulding composed of a plastics matrix composed of a transparent plastic, comprising a soluble fluorescent dye and a scattering agent whose refractive-index difference from the plastics matrix is +/- from 0.003 to 0.2,
characterized in that
a white pigment whose refractive-index difference from the plastics matrix is from + 0.4 to 1.5 is also present, at a concentration of from 0.001 to 0.1% by weight.
2. Moulding according to Claim 1, characterized in that the white pigment used comprises titanium dioxide, zinc oxide or zinc sulphide.
3. Moulding according to Claim 1 or 2, characterized in that the scattering agents present comprise aluminium hydroxide, aluminium potassium silicate (mica), aluminium silicate (kaolin), barium sulphate, calcium carbonate, magnesium silicate (talc), polystyrene, and/or light-scattering beads composed of crosslinked plastic.
4. Moulding according to one or more of Claims 1 to 3, characterized in that its reflectance is higher by at least 10% than that of a corresponding moulding without white pigment.
5. Moulding according to one or more of Claims 1 to 4, characterized in that the transparent plastic of the plastics matrix has transmittance of at least 40% in the visible region (light transmittance for daylight (D65 standard illuminant) τ_{D65} , see, for example, DIN 67 507).

6. Moulding according to one or more of Claims 1 to 5, characterized in that the transparent plastic of the plastics matrix is extruded polymethyl methacrylate, cast polymethyl methacrylate, impact-modified polymethyl methacrylate, polycarbonate, polystyrene, styrene-acrylonitrile, polyethylene terephthalate, glycol-modified polyethylene terephthalate, polyvinyl chloride, transparent polyolefin, acrylonitrile-butadiene-styrene (ABS) and/or a mixture (blend) of the plastics mentioned.
7. Moulding according to one or more of Claims 1 to 6, characterized in that the fluorescent dye is present in combination with other colorants.
8. Use of mouldings according to one or more of Claims 1 to 7 for vehicle bodywork, designer furniture, signage, or parts thereof, or for lighting systems, e.g. for illuminated advertising installations.